



2A

6

The mechanism of hydration of the volatile modification  
of phosphoric anhydride. N. I. Nefedova and Yu. V.  
Kholodkov. *J. Gen. Chem. U.S.S.R.* 30, 1401-11 (1957)  
(Engl. translation). See C.A. 49, 6936y. R. M. S.

KHODAKOV, Yu.V., chlen-korrespondent.

Structure of inorganic substances. Khim. v shkole no.3:3-12 My-Je '53.  
(MLBA 6:7)

1. Akademiya pedagogicheskikh nauk.

(Chemical structure)

KHODAKOV, Yu. V.

[General and inorganic chemistry] Obshchaya i neorganicheskaia khimiia. Moskva, Akad.ped.nauk RSFSR, 1954, 523 p. (MLRA 8:1 D)

SHAPOVALENKO, S.G.; KHODAKOV, Yu.V.

New chemistry handbook for the 7th class. Khim.v shkole 9 no.6:  
34-43 H-D '54. (MLRA 8:1)  
(Chemistry)

KHODAKOV, I.U. V.

ORESTOV, I.L.

Serious shortcomings of a useful and needed book. "General and inorganic chemistry." I.U.V. Khodakov. Reviewed by I.L. Orestov. Khim. v shkole 10 no. 4:70-73 51-55. (MIRA 8:9)  
(Chemistry, Inorganic) (Khodakov, I.U.)

KHODAKOV, Yuriy Vladimirovich; TSVETKOV, Leonid Aleksandrovich; SHAPOVALENKO, Sergey Grigor'yevich; EPSHTEYN, David Arkad'yevich; GRABETSKIY, A.A., redaktor; KOZLOVSKAYA, M.D., tekhnicheskiiy redaktor.

[Chemistry; textbook for the class 10 of the secondary school.]  
Khimiia; uchebnik dlia 10 klassa srednei shkoly. Pod red. S. S. Shapovalenko. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1956. 167 p. (MIRA 9:6)

(Chemistry)

Khodakov, Yu. V.



*Khodakov, Yu. V.*

USSR/Physical Chemistry - Crystals

B-5

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 3544

Author : Khodakov Yu. V.

Title : Allotropic Modifications of Non-Metals of Group V of Periodic System.

Orig Pub : Zh. neorgan. khimii, 1956, 1, No 4, 638-640.

Abstract : Theoretical derivation of 6 possible structures of allotropic modifications of non-metals of Group V, of which 3 were found to be existent in yellow phosphorus, black phosphorus and non-metallic modifications of As, Sb, Bi.

Card 1/1

- 21 -

~~APPROVED FOR RELEASE: 09/17/2001~~ CIA-RDP86-00513R000722120003-4

P.H., tekhn.red.

[Stories about invisible matter] Rasskazy o veshchestvakh-nevidimkakh. Moskva, Gos.izd-vo detskoi lit-ry M-va prosv. RSFSR, 1957.  
93 p. (MIRA 11:6)

(SCIENCE--JUVENILE LITERATURE)

KHODAKOV, Yuriy Vladimirovich; SAVEL'YEVA, R.N. red.; TSYPO, P.V., tekhn.  
red.

[Story-problems in chemistry; a manual for teachers] Rasskno-  
zadacha po khimii; v pomoshch uchiteliu. Izd. 2. Moskva, Gos.  
uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1957. 110 p.  
(Chemistry--Problems, exercises, etc.) (MIRA 11:7)

~~KHODAKOV, Yuriy Vladimirovich~~; TSVETKOV, Leonid Aleksandrovich; SHAPOVAL-  
LENKO, Sergey Grigor'yevich; EPSHTEYN, David Arkad'yevich; SAVIL'-  
YEVA, P.N., redaktor; MAKHOVA, N.N., tekhnicheskii redaktor.

[Chemistry; a textbook for grades 8-10 in the secondary school]  
Khimiia; uchebnik dlia VIII-X klassov srednei shkoly. Pod red.  
S.G.Shapovalenko. Izd. 3-e. Moskva, Gos. uchebno-pedagog. izd-vo  
M-va prosv. RSFSR, 1957. 423 p. (MLRA 10:6)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR (for  
Shapovalenko).

(Chemistry)

LEVASHOV, Vladimir Ivanovich, zaslužennyi učitel' shkoly RSFSR; Khodakov,  
Yu.V., prof., red.; SHAPOSHNIKOVA, A.A., red.; SOKOLOVA, R.Ya., tekhn.  
red.

[Evening of entertaining chemistry in school] Vecher zanimatel'noi  
khimii v shkole. Pod red. Iu.V.Khodakova. Moskva, Izd-vo Akad.  
pedagog. nauk RSFSR, 1958. 52 p. (MIRA 14:7)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR (for  
Khodakov)

(Chemistry—Study and teaching)

KHODAKOV, Yuriy Vladimirovich; TSVETKOV, Leonid Aleksandrovich; SHAPOVALENKO, Sergey Grigor'yevich; EPSHTEIN, David Arkad'yevich; SAVEL'YEVA, N.N., red.; MAKHOVA, N.N., tekhn. red.

[Chemistry; a textbook for grades 8 - 10 of secondary schools] Khimiya, uchebnik dlia VIII-X klassov srednei shkoly. Pod red. S.G.Shapovalenko. Izd.4. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1958. 421 p. (MIRA 14:7)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR (for Shapovalenko)

(Chemistry)

Khodakov, Yu. V.

TSVETKOV, L. A.; KHODAKOV, Yu. V.

Definition of the basic principles in the school chemistry course.

Khim. v shkole 13 no. 3: 13-25 My-Je '58.

(MIRA 11:5)

(Study and teaching)

KHODAKOV, Yuriy Vladimirovich; SAVEL'YEVA, R.N., red.; MAKHOVA,  
N.N., tekhn.red.

[General and inorganic chemistry; a manual for teachers]  
Obshchaya i neorganicheskaya khimiya; posobie dlia uchitelei.  
Izd.2. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv. RSPSR,  
1959. 735 p. (MIRA 12:6)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk (for  
Khodakov).

(Chemistry)

KHOV, Yu.V.

Correspondence with readers. Khim. v shkole 14 no.2:87-88  
Mr-Apr '59. (NIRA 12:4)

1. Chlen-korrespondent APN RSFSR.  
(Chemistry)



KHODAKOV, Yu., prof.; POTKOV, L.L.

"History of the discovery of chemical elements" by G.G. Diogenov.  
Reviewed by IU.Khodakov, L.L. Potkov. Khim. v shkole 16 no. 3:90-  
92 My-Je '61. (MIRA 14:5)

1. Chlan-korrespondent Akademii pedagogicheskikh nauk RSFSR  
(for Khodakov).

(Chemical elements) (Diogenov, G.G.)

AVDYUNIN, N.I.; KHODAKOV, Yu.V.

Methods of acquainting students with the structural formulae of  
inorganic matter. Khim. v shkole 16 no.6:39-45 N-D '61.

(MIRA 14:11)

(Chemistry, Inorganic—Study and teaching)

KHODAKOV, Yu.V., prof. (Moskva)

Chemistry of planets. Priroda 52 no.6:71-76 '63.  
(Planets)

(MIRA 16:6)

KHODAKOV, Yuriy Vladimirovich

[How scientific discoveries are made; the genesis of  
experimental discoveries] Kak rozhdaiutsia nauchnye ot-  
krytiia; genezis eksperimental'nykh otkrytii. Moskva,  
Izd-vo "Nauka," 1964. 94 p. (MIRA 17:5)

KHODAKOV, Yuriy Vladimirovich, zasl. deyatel' nauki RSFSR;  
METEL'SKAYA, G.S., red.

[General and inorganic chemistry; a textbook for teachers]  
Obshchaia i neorganicheskaia khimiia; posobie dlia uchite-  
lei. Izd.3., perer. Moskva, Prosveshchenie, 1965. 710 p.  
(MIRA 18:6)

KASATKIN, N.I.; MIRZOYANTS, N.S.; KHOKHITVA, A.P.; NECHAYEVA, I.P.; KHODAKO-  
VA, I.I.

Conditioned orientation reflexes in infants during the first year of life.  
Zhur.vys.nerv.deiat. 3 no.2:192-202 Mr-Apr '53. (MLRA 6:6)

1. Laboratoriya vysshey nervnoy deyatel'nosti rebenka Instituta pediatrii  
Akademii meditsinskikh nauk SSSR. (Conditioned response)

KHODAKOVA, L.A.

Semantic formulations of the theorems of the incompleteness of formal systems of recording information. NTI no.11:24-25 '64. (MIRA 18:1)





KHODAKOVA, M.

Public bureau of economic analysis helps the work of enterprises.  
Kozh.-obuv. prom. 7 no. 10:32-33 0 '65 (MIRA 1:9:1)

VOROB'YEVA, Anna Aleksandrovna, kand. tekhn. nauk; ZAKATOVA, Nina  
Dmitriyevna, kand. tekhn.nauk; KHODAKOVA, M.A., retsenzent;  
GRACHEVA, A.V., red.; VINOGRADOVA, G.A., tekhn. red.

[Commercial study of materials used for footwear manufacture]  
Materialovedenie obuvnogo proizvodstva. Izd.3., perer. i dop.  
Moskva, Gizlegprom, 1963. 274 p. (MIRA 16:9)  
(Shoe manufacture--Equipment and supplies)

KHODAKOVA, R. N.

USSR

*Influence of root development in peas and maize on some soil microorganisms growing in rhizosphere solutions from the plants.* N. V. Maslov and R. N. Khodakova (Soil Inst., Acad. Sci. U.S.S.R., Moscow). *Mikrobiologiya* 23, 844-850 (1954).—When cultured in soils from pea rhizospheres (I) and maize rhizospheres (II) *Pseudomonas* bacteria grew better in I, *Ascomycetes* *Chaetomium* better in II. *Bacillus cereus* and *B. megaterium* did better in I in their early growth, in II as they grew older. Sporulating organisms showed much feebler growth in both I and II than non-sporogens. Of the sporogens, *B. megaterium* grew best and *B. mycoides* least, with *B. cereus* intermediate.

Julian F. Smith

MESHKOV, N.V.; ~~KHODAKOVA, R.~~

Effect of the deepening and cultivation of the plow layer on the  
distribution of micro-organisms in the profile of turf-Podzolic  
soils. Trudy Pochv.inst. 49:129-151 '56. (MLRA 9:8)  
(Soil micro-organisms) (Podzols) (Plowing)

MAKAROV, B.N.; IGNATOVA, V.P.; KHODAKOVA, R.N.

Decomposition of some organic substances in turf-podzolic soils.  
Pochvovedenie no.12:68-73-D '62. (MIRA 16:2)

1. Pochvennyy institut imeni V.V.Dokuchayeva.  
(Podzol) (Humus)

KOSTGIN, A.; NOVIKOV, V.; MURAV'YEVA, N.; ZOTOV, V.; AKIMOV, I.;  
SPORYSHEV, V.; KOLOSOVA, V.; CHESNOKOV, N.; NEFEDOVA, O.;  
BOGAYEVA, A.; PIKOVSKIY, G.; KARMANOV, M.; SIYTM, Ye.;  
KHODAKOVA, S.; KUSHNER, P.; BLYAKHMAN, I.; BASSIAS, L.;  
KINESHEMTSEVA, A.; REZNIKOV, M.; KALININ, S.; MILANOVA, D.;  
VENGEROVA, R.; AGROSKINA, M.; RATNER, B.; NARODETSKIY, B.;  
MARKOVA, L.; GOLUBENKOVA, N.; TSEKHANSKAYA, S.; TEREENT'YEVA, N.;  
NESTEROVA, S.; AKSENOV, S.

D.M. Khazan-Andreeva; obituary. Tekst.prom. 21 no.12:90 D '61.

(MIRA 15:2)

(Khazan-Andreeva, Dora Moiseevna, 1894-1961)

L 34065-65

EPA(s)-2/TW(c)/TWT(m)/EPA(bb)-2/TW(n) m/1000 m.

ACCESSION

AUTHOR: LIDMAN, D. V., Khodakova, T. A.

TITLE: Aging of N41KhTA alloy

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 2, 1966, pp. 1-4.

TOPIC TAGS: alloy aging, spring alloy, nickel alloy, iron alloy, property, alloy heat treatment, alloy electrical property.

ABSTRACT: The authors investigated the aging of N41KhTA alloy.

The authors investigated the aging of N41KhTA alloy. The alloy was aged at 400°C for 100, 200, 400, and 800 hours. The electrical resistivity, hardness, and elongation were measured. Fig. 1 of the Enclosure, the resistivity depended on the aging time.

L 34065-65

ACCESSION NR: AF5005098

but longer aging aging at this temperature caused overaging. The dependence of the electrical resistivity on quenching temperature revealed that resistance increased after quenching from 1050C. On investigating the internal structure of the alloy it was demonstrated that friction dropped with an increase in quenching and aging temperature. Frig. att. has been figured.

ASSOCIATION: Moskovskiy Institut stali i splavov (Moscow steel

SUBMITTED: 00

ENCL: 02

SUB CORR: 1

NO REF SOV: 002

OTHER: 001

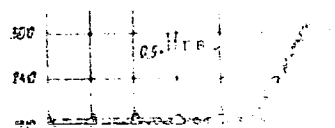
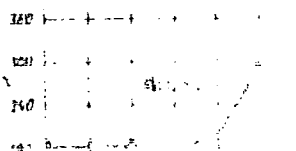
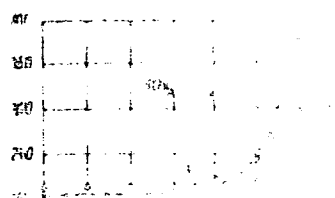
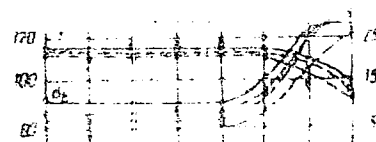
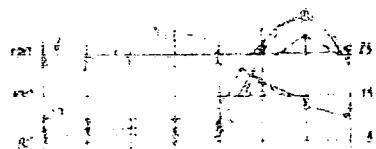
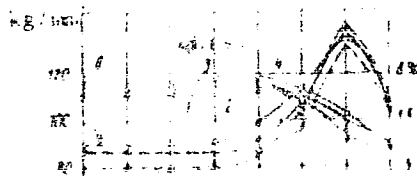
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ACCESSION NO. AF5005008

ENCLOSURE 01



Card 3/4

L 34065-65

ACCESSION NR: AP5005098

ENCLOSURE: 02

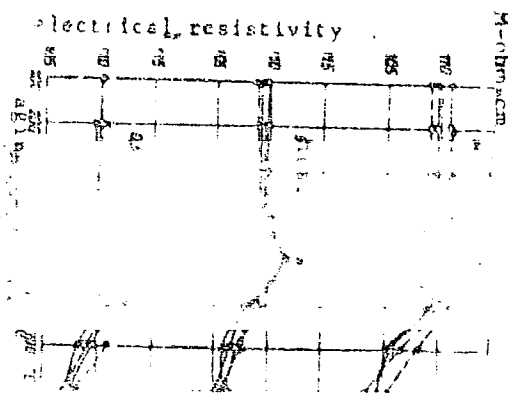


Figure 1. Dependence of the electrical resistivity and mechanical properties on temperature.

Cont. 4/4

VASIL'KOVA, Z.G.; KHODAKOVA, V.I.

Activities of the helminthology section at the Karelio-Finnish  
Republic. Med.paras. 1 paras. bol.24 no.3:286-287 J1-8 '55.  
(HELMINTH INFECTIONS, prevention and (MLRA 8:12)  
control in Russia)

KHODAKOVA, V.I.; MAMEDOV, M.M.

Helminth infection of the population in Ol'khon District,  
Irkutsk Province. Med.paraz.i paraz.bol. 29 no.5:609-611  
S-O '60. (MIRA 13:12)

1. Iz gel'mintologicheskogo otdela Instituta meditsinskoy para-  
sitologii i tropicheskoy meditsiny imeni Ye.I. Martynovskogo  
Ministerstva zdavookhraneniya SSSR (dir. - prof. P.G. Sergiyev,  
zav. otdelom - prof. V.P. Pod'yapol'skaya).

(OL'KHON DISTRICT—WORMS, INTESTINAL AND PARASITIC)

MOZGOVOY, A.A.; SHUMAKOVICH, Ye.Ye.; KHODAKOVA, V.I.; TURLYGINA, Ye.S.

Scientific Conference of the All-Union Society of Helminthologists.  
Izv. AN SSSR. Ser. biol. no.6:941-944 N-D '64.

(MIRA 17:11)

GOFMAN-KADOSHNIKOV, P.B.; KHODAKOVA, V.I.; CHIZHOVA, T.P.;  
KRAVTSOV, E.G.

Role of the nine-spined stickleback in the dissemination of  
diphyllobothriasis. Med. paraz. i paraz. bol. 32 no.4:460-  
465 J1-Ag '63. (MIRA 17:8)

1. Iz kafedry biologii (zav. - prof. F.F. Talyzin) i Moskovskogo  
ordena Lenina meditsinskogo instituta imeni I.M. Sechenova i  
gel'mintologicheskogo otdela (zav. - prof. V.P. Pod'yapol'skaya)  
Instituta meditsinskoy parazitologii i tropicheskoy meditsiny  
imeni Ye.I. Martynovskogo (dir. - prof. P.G. Sergiyev)  
Ministerstva zdravookhraneniya SSSR.

KHODAKOVA, W.I.; ABRAMOVA, I.G.; VOSHCHINSKAYA, N.P.

Some data for the study of diphyllobothriasis in Turukhansk and Igarka Districts of Krasnoyarsk Territory. Med. parazit. i parazit. bol. 34 no.2:139-145 Mrtip '65. (MIRA 13:11)

1. Del'antologicheskii otdel Instituta meditsinskoy parazitologii i tropicheskoy meditsiny imeni Ye.I. Martynovskogo Ministerstva zdoroookhraneniya SSSR i krayevaya sanitarno-epidemiologicheskaya stantsiya Krasnoyarskoi.

KHODAKOVA, V.P.

Total radiation over the southern part of the Indian Ocean  
according to observations by exploring ships. Trudy GGO no.  
160:74-76 '64. (MIRA 17:9)



RHODAKOVA, Y. P.

USSR

Solubility and acid-base properties of 5,7-dibromoquinol-  
inol. A. M. Vasil'ev, A. A. Popel, and Y. P. Rhodakova.  
*Chem. Zvesti. Kazan. Univ.* 113, No. 5, 89 (1963).  
Refer. Zhur., Khim. 1954, No. 38175. — The soly. was deid.  
in 5-4.0N HCl, 0.5N HNO<sub>3</sub>,  $0.5 \times 10^{-4}$  0.5N NaOH. In  
the acids the soly. of 5,7-dibromoquinol increased with  
the concn. of the acid. In the alkali the soly. increased with  
the concn. of NaOH and reached a max. at 0.1N. From the  
soly. detm. was calcd, the disson. const. of 5,7-dibromo-  
quinol as base ( $K_b$ ) and as acid ( $K_a$ ). The calcd. values  
were  $K_b = 2.15 \times 10^{-11}$  and  $K_a = 1.2 \times 10^{-9}$ . The pH at  
the isols. point was calcd. to be 5.7. Soly. detm. were also  
made in 10-80% aq. Me<sub>2</sub>CO solns. and in pure Me<sub>2</sub>CO. At  
an Me<sub>2</sub>CO concn. of 10-25% the soly. of 5,7-dibromoquino-  
linol increases 5-10 times. Acidification of the 10-25% Me<sub>2</sub>CO  
solns. with HCl doubled the soly. M. Hovd...

Chair of Analytical Chem.

ACCESSION NR: AP4022718

S/0020/64/155/002/0370/0373

AUTHORS: Kitaygorodskiy, I.I.; Khodakovskaya, R. Ya.; Artamonova, M.V.

TITLE: Phase changes in the process of catalytic crystallization of glass in the  $\text{SiO}_2\text{-Al}_2\text{O}_3\text{-MgO}$  system

SOURCE: AN SSSR. Doklady\*, v. 155, no. 2, 1964, 370-373

TOPIC TAGS: glass crystallization, cordierite, titanium dioxide catalyst, solid solution, high temperature quartz, quartz, spinel, sapphire, x ray analysis, thermal analysis, cordierite

ABSTRACT: The crystallization process in glass having the cordierite composition, and in such glass containing 10 mol.%  $\text{TiO}_2$  as the catalytic additive, was investigated. The crystallization of the following phases was observed: at about 850C--a solid solution based on high temperature quartz; 900-1000C-quartz; 900-950C-spinel; 1000-1100C--sapphire; 1200C--cordierite. From

Card 1/5

ACCESSION NR: AP4022718

x-ray analysis it was determined that cordierite is not formed directly from glass, but through the following series of intermediate compounds: (1) separation of the first crystallization phase, solid solutions of type 0 silica; (2) breakdown of the solid solution with the formation of quartz, spinel and rutile; (3) conversion of the spinel to sapphirine; (4) interaction of sapphirine with quartz to form cordierite (fig. 1). Thermal analysis confirmed exothermic effects (fig. 2). The addition of  $TiO_2$  did not cause separation of a low temperature form of cordierite-- $\mu$ -cordierite, as was reported by M.D. Karkhanavala and F.A. Hummel (J. Am. Ceram. Soc., 36, 12 (1953)). Using the Karkhanavala method of synthesis,  $\mu$ -cordierite was formed only after heating for 150 hours. It is concluded that  $\mu$ -cordierite is not a compound with constant composition, but one of the members of the solid solution based on high temperature quartz. Orig. art. has: 1 table and 2 figures.

ASSOCIATION: Akademii nauk SSSR (Academy of Sciences SSSR)

SUBMITTED: 10Nov63

DATE ACQ: 08Apr64

ENCL: 02

Card 2/5

TRANSFER IMAGE SERVICE

ACCESSION NR: AT4019279

S/0000/63/003/001/0031/0038

AUTHOR: Kitaygorodskiy, I. I.; Khodakovskaya, R. Ya.

TITLE: The recrystallization period in glass and its significance

SOURCE: Simpozium po stekloobraznomu sostoyaniyu. Leningrad, 1962. Stekloobraznoye sostoyaniye, vy\*p. 1: Katalizirovannaya kristallizatsiya stekla (Vitreous state, no. 1: Catalyzing crystallization of glass). Trudy\* simpoziuma, v. 3, no. 1. Moscow, Izd-vo AN SSSR, 1963, 31-38, insert page facing p. 16 and upper half facing p. 17

TOPIC TAGS: glass, crystallization, precrystallization period, crystallization catalyst, cordierite, electron microscopy, thermography

ABSTRACT: The temperature conditions during the so-called precrystallization period demonstrated experimentally in the catalyzed crystallization of glass, exert a great effect on the subsequent crystallization process and hence on the structure and properties of the final product glass ceramics. In order to study the processes in the production of glass ceramics, a glass composition based on cordierite was chosen in the  $\text{SiO}_2\text{-Al}_2\text{O}_3\text{-MgO}$  system. The catalysts used were oxides of the elements of group IV of the periodic table ( $\text{TiO}_2$ ,  $\text{SnO}_2\text{ZrO}_2$ ,  $\text{PbO}$ ) as well as fluorine. Complex experimental methods, such as

Card 1/2

ACCESSION NR: AT4019279

x-ray, differential thermography and electron microscopy were used. A relationship is established between the properties, structure, and phase composition of the material and the conditions of thermal treatment of glass. Differential thermal analysis of glass showed that the formation of the first crystalline phase occurs at 815°C. Any temperature below this is a precrystallization period. A relationship is also established between the temperature of the maximum exothermic effect, connected with the formation of mullite, and the temperature of the thermal treatment of glass in the precrystallization stage. The dependence of the density  $\gamma$ , the thermal expansion coefficient  $\lambda$  and the strength  $R$  on the crystallization temperature is plotted at different times of precrystallization. Structural changes, depending on the temperature of precrystallization are illustrated by microphotographs. From the investigations, general rules are established which are typical for heterogeneous crystallization and independent of the composition of the initial glass. This makes it possible to control the crystallization of glass to a greater extent by choosing the optimal conditions of thermal treatment. Orig. art. has 10 figures.

ASSOCIATION: Kafedra stekla MkhTI im. D. I. Mendeleeva (Department of Glass, MKhTI)

SUBMITTED: 09

DATE ACQ: 21Nov63

ENCL: 00

SUB CODE: MT

NO REF SOV: 000

OTHER: 000

Card 2/2

L 32075-66 EWT(1)/EWP(e)/EWT(m)/T/EWP(t)/ETI IJP(c) JD/WW/LHB/WH

ACC NR: AP6013351

(A)

SOURCE CODE: UR/0363/66/002/004/0726/0737

AUTHOR: Kitaygorodskiy, L. L. (Deceased); Pavlushkin, N. M.; Khodakovskaya, R. Ya. 47

ORG: Moscow Chemical Engineering Institute im. D. I. Mendeleev (Moskovskiy khimikotekhnologicheskii institut) B

TITLE: Possibility of applying the method of quantitative x-ray phase analysis to vitreous-crystalline materials 2

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 4, 1966, 726-737

TOPIC TAGS: phase analysis, x-ray diffraction analysis, quartz, glass

ABSTRACT: The object of the study was to work out a technique for quantitatively determining the composition of crystalline phases in pyroceramic materials. Because of its simplicity, rapidity, and popularity, the method of quantitative x-ray phase analysis was chosen. Two variants of this method were used: (1) direct measurement of the intensity of diffraction reflection (plotting of calibration graph in the coordinates  $I$  vs. % of crystalline phase), (2) internal standard (plotting of calibration graph in the coordinates  $I/I_{st}$  vs. % of crystalline phase). 1/ A quantitative x-ray phase analysis was carried out on pyroceramic material of the  $SiO_2-Al_2O_3-MgO$  system containing three crystalline phases: quartz, spinel, and rutile, and both variants were shown to yield satisfactory results. Because of the characteristics of the pyroceramic structure, more accurate data on the content of crystalline phases are provided by measurements of the integral intensity (area under the peak). The results of the x-ray phase analysis

Card 1/2

UDC 661.1:542.65

L 32075-66

ACC NR: AP6013351

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722120003-4"

were confirmed by data obtained from chemical phase analysis. Orig. art. has: 6 figures, 3 tables, and 3 formulas.

SUB CODE: 11 / SUBM DATE: 19Jul65 / ORIG REF: 016 / OTH REF: 010

Card 2/2 20

L 59372-65 EWP(e)/EPA(s)-2/ENI(m)/EPF(c)/ENP(l)/ENK(w)-2/ENP(11)/T/ENP(11)-2/ENP(11)  
ENP(b) Pc-4/Pab-10/Pq-4/r-4/Pt-7 WW/PM/WH

ACCESSION NR: AP5016598

UR/0363/65/001/005/0796/0801

546.46 + 546.621 + 546.124

AUTHOR: Khodakovskaya, I. Ya.

TITLE: The process of the pyroceramization of glass  
alumina - MgO

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 1, 1979, p. 796-803

TOPIC TAGS: cordierite glass, pyroceramization, glass crystallization, glass, magnesium aluminosilicate, electron microscopy, x-ray phase analysis, glass structure, pyroceramic properties

ABSTRACT: Cordierite-base glasses containing F,  $\text{TiO}_2$  +  $\text{SnO}_2$  and  $\text{BaO}$  additives were studied. The process of pyroceramization (formation of pyroceramic structure) was followed by means of x-ray phase, differential thermal, and electron microscopic analysis, and the mechanical, thermal and electric properties were determined. Regardless of the catalytic additive, the pyroceramization of all the glasses studied in the system studied displays the same general behavior. Preliminary heat treatment during the precrystallization period greatly affects the structure.

Card 1/2

I 59272-65

ACCESSION NR: AP5016598

composition, and properties of the pyroceramics. The effect of this process on the crystallization and structure of the material can be brought about in different ways: (1) a qualitative change in the character of the structure of glass can be brought about from surface to volume crystallization.

of the structure of the pyroceramic can be substantially increased. (2) parent pyroceramics are formed; (3) opacification of the glass can be brought about prior to its crystallization. The optimum interval of the preservation period, in which heat treatment has the strongest effect.

the crystallization process and in the structure of the material.

crystallization process and in the crystallization process.

This region most probably constitutes the optimum range for crystallization.

all. and of the material.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskii institut im. D. I. Mendeleeva (Moscow Chemical Engineering Institute)

SUBMITTED: 11Feb65

ENCL: 00

SUB CODE: MI, 1.

NO REF SOV: 007

OTHER: 009

Card 2/2 *DP*



**KHODAKOVSKIY, G.D.**

Penicillin therapy for plastic induration of the penis. Vest. ven.  
i derm. no.1:48 Ja-F '55. (MIRA, 8:4)

(PENICILLIN) (PENIS--DISEASES)

*KHO DAKOVSKIY, G.D.*  
EXCERPTA Medica Sec 19 Vol 2/9 Rehabilitation Sep 59  
1948. Individual prophylaxis of fungal diseases of the feet (Russian text) KHO DAKOVSKIY G. D. *Vestn. Derm. i Vener.* 1958, 32/5 (21-21) Tables 3

This article reports on the relative merits of the IFT liquid (formalin — 5.0, tannin — 10.0, 2% iodine tincture — 100.0) suggested by the author for the prophylaxis of fungal diseases of the feet. The IFT liquid was studied on students some of whom (10-15%) had been affected with epidermophytosis, especially in the warm seasons of the year. Starting from the 1st of April and continuing till the end of October, 1957, the liquid was applied daily to the soles and toes of the students immediately after bathing. As a result, in 1957, not a single student sought medical aid for epidermophytosis. Repeated examinations revealed no active forms of epidermophytosis. (XVII, 19)

KHGDAROVSKIY, G.D.

Treatment and prevention of fungous diseases of the feet. *Ébkr.nauch.*  
*rab.Bel.nauch.-issl.kozhno-ven.inst.* 6:344-355 '59. (MIRA 1:11)  
(FOOT--DISEASES)  
(MEDICAL MYCOLOGY)

KHODAKOVSKIY, G.D.

Leukocyte count of blister fluid in certain dermatoses. Vest.  
derm. i ven. 33 no.3:57-58 My-Je '59. (MIRA 12:9)

1. Iz Litovskogo respublikanskogo kozhno-venerologicheskogo  
dispansera (glavnyy vrach M.M.Robinson).

(SKIN DISEASES, pathol.

leukocyte formula in vesicular fluid (Rus))

(LEUKOCYTES

leukocyte formula in vesicular fluid in skin  
dis. (Rus))

KHODAKOVSKIY, I.G.; ROYTMAN, M.Ya., kand. tekhn. nauk, rukovoditel' diplomnogo  
proyekta

Determining the fire resistance limits of reinforced concrete structures under various temperature conditions. Pozh. bezop. no.3:31-38  
'64. (MIRA 18:5)

MALYSHEV, B.I.; KHODAKOVSKIY, I.L.

Some geochemical characteristics of lead transportation and deposition in the hydrothermal solutions of the Zambarak deposit. Geokhimiia no. 5:431-440 My '64. (MIRA 18:7)

1. Vernadsky Institute of Geochemistry and Analytical Chemistry, Academy of Sciences, U.S.S.R.

KHODAKOVSKIY, I.I.; ZHOGINA, V.V.; RYZHENKO, B.N.

Dissociation constants of hydrosulfuric acid at elevated temperatures. Geokhimiia no.7:827-833 JI '65.

(MIRA 18:11)

1. Institut geokhimii i analiticheskoy khimii imeni V.I. Vernadskogo AN SSSR, Moskva. Submitted February 20, 1965.

KHODAKOVSKIY, M.A.

Sarcoma of the cecum in a child. Zdrav.Belor. 5 no.8:68  
Ag '59. (MIRA 12:10)

1. Iz khirurgicheskogo otdeleniya Minskoy dorozhnoy bol'nitsy  
(nachal'nik bol'nitsy V.V.Konopel'ko).  
(CECUM--TUMORS)



KHODAKOVSKIY, M.A.

Penetrating wound of the heart. Zdrav. Belor. 6 no.9:71 S '60.

(MIRA 13:9)

1. Iz khirurgicheskogo otdeleniya Minskoy dorozhnoy bol'nitsy  
Belorusskoy zheleznoy dorogi (nachal'nik bol'nitsy V.V. Konopal'ko).  
(HEART--WOUNDS AND INJURIES)

KHODAKOVSKIY, M.A.

Gigantic hydronephrosis. Zdrav. Belor. 6 no. 7:64-65 Je '60.  
(MIRA 13:8)

1. Iz khirurgicheskogo otdeleniya Minskoy zheleznodorozhnoy  
Bol'nitsy (nachal'nik bol'nitsy V.V. Konopel'ko).  
(KIDNEYS---DISEASES)

ACCESSION NR: AP4012576

S/0072/64/000/002/0003/0010

AUTHORS: Kutukov, S.S. (Candidate of technical sciences);  
Khodakovskiy, M.D. (Engineer)

TITLE: Analysis of the nature of a glass melt's flaw in the zone of continuous glass fiber formation by high-speed filming method

SOURCE: Steklo i keramika, no. 2, 1964, 3-10

TOPIC TAGS: glass, glass fiber, continuous glass fiber, glass melt flaw, glass melt convection current, glass fiber formation

ABSTRACT: The rapid growth of continuous glass fiber production and expansion of the area of its application require a deeper study of the forming process in order to increase quality and reduce the high cost of glass fiber. The purpose of the work is to study the nature of glass melt flaw in the forming zone and to determine the velocity field in it. A method was developed to study the process of continuous glass fiber forming, by high-speed filming. Using an

Card 1/3

ACCESSION NR: AP4012576

SKS-1 camera, six series of tests were conducted differing in drawing rates (68, 61, 51, 42, 34, and 27 m/sec). To obtain an image of the forming zone, the frames of specific films were magnified 100-130 times and projected on a screen with a 16-KP3L-2 projector. Results of computations are given for values of volume and length of the forming zone for two frames of each film taken at random. Periodic changes in volume of the forming zone lead to a similar change of diameter of the unit glass fiber and thermal state of its forming. A basic increase in flow rate and acceleration of glass in the forming zone occurs at intervals of  $10^{-4}$  to  $10^{-5}$  seconds. The shape of curves for velocity change and acceleration of the glass in the forming zone of the forming process do not depend on glass diameter and technological parameters. The velocity field of glass in the visible portion of the forming zone was studied; the rate is highest axially and decreases at its surface. Maximum relative velocity gradient is in the output cross section of bushing tip and final balancing of velocity occurs at moment of fiber diameter fixation.

Cord 2/3

ACCESSION NR: AP4012576

Blow of glass in the forming zone is laminar in character. Orig.  
art. has: 9 figs., 4 tables.

ASSOCIATION: Institut steklovalokua (Fiberglass institute)

SUBMITTED: 00

DATE ACQ: 03Mar54

ENCL: 00

SUB CODE: MA, CH

NO REF SOV: 007

OTHER: 002

Cord 3/3

|  |   |
|--|---|
| L 23178-66 EWT(m)/EWP(e) WH/WW   |   |
| ACC NR: AP6008300  | SOURCE CODE: UR/0072/66/000/003/0015/0020 |
| AUTHOR: Khodakovskiy, M. D. (Candidate of technical sciences); Kutukov, S. S. (Candidate of technical sciences)  |   |
| ORG: All-Union Scientific Research Institute of Glass-Reinforced Plastics and Glass Fiber (Vsesoyuznyy nauchno-issledovatel'skiy institut stekloplastikov i steklyannogo volokna)  |   |
| TITLE: New method of studying the process of forming of continuous glass fiber   |   |
| SOURCE: Steklo i keramika, no. 3, 1966, 15-20  |   |
| TOPIC TAGS: glass fiber,   | silicate glass                            |
| ABSTRACT: The forming of continuous glass fiber by the spinneret process was studied by determining the diameter of the elementary fiber or weighing its segments. The curves of the change in diameter thus obtained were used to determine the frequency and amplitude of the main components of oscillations of the fiber diameter or of the weight of segments of the primary thread. From the variation in the fiber thickness or nonuniformity in the weight of the segments of the primary thread, the authors determined the stability of the forming process in relation to the technique employed, design of the apparatus, glass composition, etc. Experiments with standard aluminum borosilicate glass on both laboratory and industrial equipment showed that the thick- |   |
| Card 1/2   | UDC: 666.211.036                          |

L 23478-66

ACC NR: AP6008300

ness changed from 4 to 25% in all cases. The process of forming of continuous glass fiber was shown to be pulsatory in nature. Weighing of the fiber segments showed the presence of four types of component oscillations differing in frequency and period: random ones of first order and periodic ones of second, third, and fourth order. Orig. art. has: 7 figures.

SUB CODE: 11/

SUBM DATE: 00/

GRIG REF: 002/

OTH REF: 001

Card 2/2

BEGAGOVEN, I.A.; VLASENKO, G.A.; KHODAKOVSKIY, N.A.

Organization and methodology of conducting industrial tests of  
parts of drills for wear. Sbor. nauch. trud. KGBI no. 19:15-16 '62.  
(MIRA 16:5)

(Boring machinery—Testing) (Mechanical wear)





IL'NITSKIY, Iosif Ivanovich; KHODAKOVSKIY, N.S., inzh., red.;  
BOGOSLAVETS, N.P., tekhn. red.

[Automatic and semiautomatic machine tools] Stanki-avtomaty i  
poluavtomaty. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit.  
lit-ry, 1961. 46 p. (Nauchno-populiarnaya biblioteka rabochego  
stanochnika, no.30) (MIRA 15:1)  
(Machine tools) (Automatic control)

SHARIN, Yuriy Sergeyevich; KHODAKOVSKIY, N.S., inzh., retsenzent;  
DUGINA, N.A., tekhn. red.

[Automatic machine-tool lines in the machinery industry]  
Avtomaticheskie stanochnye linii v mashinostroenii. Mo-  
skva, Mashgiz, 1961. 36 p. (Nauchno-populiarnaya biblio-  
teka rabochego-stanochnika, no.31) (MIRA 15:3)  
(Machine tools) (Automation)

POLUYANOV, Viktor Trofimovich; KHODAKOVSKIY, N.S., inzh., retsenzent;  
BOGOSLAVETS, N.P., tekhn. red.

[Lathes] Tokarnye stanki. Moskva, Mashgiz, 1961. 35 p. (Na-  
ucho-populiarnaya biblioteka rabochego-stanochnika, no.23)  
(MIRA 15:12)

(Lathes)

KHODAKOVSKIY, K.S.; YARKHO, Ye.A., inzh., retsenzent; IZAKOV,  
N.R., kand. tekhn. nauk, dots., red.

[Reduction of auxiliary time in the heavy machinery  
industry] Sokrashchenie vspomogatel'nogo vremeni v tia-  
zhelom mashinostroenii. Moskva, Mashinostroenie, 1964.  
95 p. (MIRA 18:1)

KHODAKOVSKIY, V.R.; ZHORNYAK, A.F.

Determining the resources of scale for the production of iron powder.  
Porosh.met. 5 no.6:87-93 Je '65.

(MIRA 18:8)

1. Ukrainskiy Sovet narodnogo khozyaystva.

VARLAMOV, M.I.; BELENAVICHYUS, K.K.; MANAKIN, G.A.; Pril'mali uchastiyes  
POLUKHINA, T.I.; KHODAKOVSKIY, V.V.; GORSHKOVA, L.V.;  
TUL'CHINSKAYA, K.V.; TSITKO, A.S.; SHELAMOV, V.A.

Removal of phthalic anhydride from the waste gases in the production  
of glyptal and pentaphthalic varnishes. Nauch. zap. Od. politekh.  
inst. 41:10-21 '62. (MIRA 17:4)

KHODAKOVSKIY, V.V.; YEFIMOV, V.A., kand. tekhn. nauk, starshiy nauchnyy  
 FASOVNIK; KOSENKO, P.Ye., kand. tekhn. nauk; KAZAKEVICH, S.B.;  
 LAPITSKIY, V.I., prof., doktor tekhn. nauk; FILIP'YEV, O.V.;  
 STROGANOV, A.I., kand. tekhn. nauk, dots.; DEMIDOVICH, A.V.;  
 BORNATSKIY, I.I., kand. tekhn. nauk; MEIZHIBOZHSKIY, M.Ya., dots.;  
 KOCHO, V.S., prof., doktor tekhn. nauk; RYN'KOV, V.I.; LOMAKIN,  
 L.M., mladshiy nauchnyy sotrudnik; KOKAREV, N.I., dots.; KLEUCHAREV,  
 A.P.; PLYUSHCHENKO, Ye.A.; KAPUSTIN, Ye.A., kand. tekhn. nauk, dots.;  
 KOBEZA, I.I., kand. tekhn. nauk, nauchnyy sotrudnik; SHIROKOV, G.I.;  
 UMRIKHIN, P.V., prof., doktor tekhn. nauk; LIZHAVA, K.I.; ZHIGULIN,  
 V.I.; MOROKOV, P.K.; KHLIBNIKOV, A.Ye., prof., doktor tekhn. nauk,  
 starshiy nauchnyy sotrudnik; TARASOV, N.S.; NIKOLAYEV, A.G.

Discussions. Biul. TSNIICM no.18/19:40-66 '57. (MIRA 11:4)

1. Starshiy inzhener Glavspetsstali Ministerstva chernoy metallur-  
 gii SSSR (for Khodakovskiy). 2. Institut gaza (for Yefimov). 3. Di-  
 rektor Dneprodzerzhinskogo metallurgicheskogo instituta (for  
 Kosenko). 4. Nachal'nik laboratorii Leningradskogo instituta ogne-  
 uporov (for Kazakevich). 5. Zaveduyushchiy kafedroy metallurgii  
 stali Dnepropetrovskogo metallurgicheskogo instituta (for Lapitskiy).  
 6. Nachal'nik laboratorii Giprostali (for Filip'yev). 7. Chelyabin-  
 ski politehnicheskii institut (for Stroganov). 8. Nachal'nik  
 teplotekhnicheskoy laboratorii Severskogo metallurgicheskogo zavoda  
 (for Demidovich). 9. Zamestitel' nachal'nika Tsentral'noy zavodskoy  
 laboratorii Makeyevskogo metallurgicheskogo zavoda (for Bornatskiy).

(Continued on next card)



KHODAKOVSKIY, V.V.---(continued) Card 2.

10. Sibirskiy metallurgicheskiy institut (for Medzhibozhskiy).
11. Zaveduyushchiy kafedroy metallurgii stali Kiyevskogo politekhnicheskogo instituta (for Kocho). 12. Ispolnyayushchiy obyazannosti glavnogo inzhenera Beloretskogo metallurgicheskogo kombinata (for Ryn'kov). 13. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki (for Lomakin). 14. Ural'skiy politekhnicheskii institut (for Kokarev). 15. Zamestitel' nachal'nika teplotekhnicheskoy laboratorii Nizhne-Tagil'skogo metallurgicheskogo kombinata (for Klyucherov). 16. Nachal'nik teplotekhnicheskoy laboratorii Tsentral'noy zavodskoy laboratorii zavoda im. Voroshilova (for Flyushchenko). 17. Zhdanovskiy metallurgicheskiy institut (for Kapustin). 18. Institut metallurgii im. Baykova AN SSSR (for Kobeza). 19. Nachal'nik laboratorii martenovskikh pechey Vsesoyuznogo nauchno-issledovatel'skogo instituta metallurgicheskoy teplotekhniki (for Shirokov). 20. Zaveduyushchiy kafedroy metallurgii stali Ural'skogo politekhnicheskogo instituta (for Umrikhin). 21. Nachal'nik metallurgicheskoy laboratorii Tsentral'noy zavodskoy laboratorii Zakavkazskogo metallurgicheskogo zavoda (for Lenthava). 22. Zamestitel' glavnogo inzhenera zavoda im. Petrovskogo (for Zhigulin). 23. Nachal'nik martenovskogo tsekha Kuznetskogo metallurgicheskogo kombinata (for Morokov). 24. Institut metallurgii im. Baykova AN SSSR (for Khlebnikov). 25. Glavnyy inzhener Petrovsk-Zabaykal'skogo metallurgicheskogo zavoda (for Tarasov). 26. Nachal'nik tsekha Magnitogorskogo metallurgicheskogo kombinata (for Nikolayev).

(Open-hearth process)

NOVOZHILOV, M.G., prof.; KUCHERYAVYY, F.I., dotsent; KHODAKOVSKIY, Yu.F.,  
gornyy inzh.; GLUSKIN, L.I., gornyy inzh.

Optimum parameters of boring and blasting operations and their  
effect on rock breaking by blasting. Vzryv. delo no.47/4:197-204  
'61. (MIEA 15:2)

(Blasting) (Boring)

KUCHERYAVYY, F.I., dotsent; KHODAKOVSKIY, Yu.F., inzh.; KOSTRIKOV, V.F.,  
inzh.

Potentials for increasing the productiveness of cable drilling. Izv.  
vys.ucheb.zav.; gor.zhur. 5 no.2:110-114 '62. (MIRA 15:4)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy  
institut imeni Artema. Rekomendovana kafedroy razrabotki rudnykh  
mestorozhdeniy i otkrytykh gornyykh rabot.  
(Komsomol'skoye region (Donetsk Province)--Boring)

KUCHERYAVYY, F.I., dotsent; KHODAKOVSKIY, Yu.F., inzh.; KOSTRIKOV, V.F.,  
inzh.; YEFREMOV, E.I., inzh.

Basis for the selection of blast hole drilling equipment in  
limestone quarries. Izv.vys.ucheb.zav.; gor.zhur. 7 no.2:87-  
92 '64. (MIRA 17:3)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy in-  
stitut imeni Artema. Rekomendovana kafedroy otkrytykh rabot.

NOVOZHILOV, M.G., prof.; KUCHERYAVYY, F.I., dotsent; KHODAKOVSKIY, Yu.F.,  
inzh.; GLUSKIN, L.I.

Ways of increasing the efficiency of boring and blasting in  
the Karakubskiy pits. Gor. zhur. no.7:36-38 J1 '61.  
(MIRA 15:2)

1. Dnepropetrovskiy gornyy institut (for Novozhilov,  
Kucheryavyy, Khodakovskiy). 2. Glavnyy inzh. Karakubskogo  
rudoupravleniya (for Gluskin).  
(Komsomol'skoye region (Donetsk Province)---Boring)  
(Blasting)

KUCHERYAVYI, F.I., kand.tekhn.nauk; KHODAKOVSKIY, YU.F., gornyy inzh.; YEFREMOV, E.I., gornyy inzh.; KOSTRIKOV, V.P., gornyy inzh.

Improving boring and blasting work in trench digging in limestone quarries. Gor. zhur. no.7:40-42 J1 '62. (MIRA 15:7)

1. Dnepropetrovskiy gornyy institut.  
(Komsomol'skoye region (Donetsk Province)—Limestone)  
(Blasting)

KUCHERYAVYY, F.I.; KHODAKOVSKIY, Yu.F.

Effect of distribution parameters and the order of detonating  
borehole charges on the efficiency of boring and blasting  
operations in the quarrying of flux limestone. Vzryv. delo  
no.55/12:172-187 '64. (MIRA 17:10)

1. Dnepropetrovskiy gornyy institut im. Artema.

21166

S/141/60/003/006/005/025  
EO32/E111

AUTHORS: Benediktov, Ye.A., Korobkov, Yu.S., Mityakov, N.A.,  
Rapoport, V.O., and Khodaleva, L.N.

TITLE: Results of Measurements of the Absorption of Radio  
Waves in the Ionosphere

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika,  
1960, Vol.3, No.6, pp. 957-968

TEXT: Results obtained at Gor'kiy in 1959 are reported.  
The total absorption in the ionosphere was measured with the aid  
of the "method of two frequencies". The method is described as  
follows. Suppose that the cosmic radio emission is received  
simultaneously on two frequencies,  $f_1$  and  $f_2$ , where  $f_2 > f_1$ .  
For each of these frequencies the integral absorption of radio  
waves in the ionosphere is given by:

$$\Gamma_1 = \ln(I_{01}/I_1),$$

where  $I_{01}$  and  $I_1$  are the intensities of cosmic radio emission  
of frequency  $f_1$  before and after passage through the

Card 1/5



21166

S/11.1/60/003/006/005/025

EO32/E111

# Results of Measurements of the Absorption of Radio Waves in the Ionosphere

ionosphere. If  $(2\pi f_1)^2 \gg \nu^2$  and  $f_1^2 \gg f_c^2$ , where  $\nu$  is the effective number of collisions of electrons with ions and neutral molecules, and  $f_c$  is the critical frequency of the F-layer, then the integral absorption is given by:

$$\Gamma_1 = \frac{e^2}{\pi m c f_1^2} \int_0^z N \nu dz \quad (2)$$

In this expression  $N$  is the electron concentration,  $z$  is the thickness of the absorbing layer,  $e$  and  $m$  are the charge and mass of the electron, and  $c$  is the velocity of light. It then follows that  $\Gamma_1 / \Gamma_2 = (f_2 / f_1)^2$  and hence, finally, the integral absorption for each of the frequencies is given by:

$$\Gamma_1 = \frac{\ln(I_{02}/I_{01}) - \ln(I_2/I_1)}{1 - f_1^2/f_2^2} \quad (3a)$$

Card 2/5

21166

S/111/t-0/003/006/005/025

E032/E111

Results of Measurements of the Absorption of Radio Waves in the Ionosphere

and 
$$\tau_2 = \tau_1 (f_1/f_2)^2 \quad (3b)$$

If  $I_{02}/I_{01}$  does not depend on the galactic coordinates then changes in  $\tau_1$  with time depend only on the ratio of the two frequencies. In fact, the above intensity ratio is not independent of the galactic coordinates but this fact should not lead to large errors in the absorption measurements. Published data on the absorption of radio waves in the ionosphere during night hours shows that the absorption is frequently negligible. If the intensity ratio  $I_{02}/I_{01}$  is determined for these hours, then the absorption for any other time can be calculated from Eq. (3). It may be shown that the optimum frequency range for the above method differs from the standard method (described by Plum et al. in Ref.2 and Mitra and Shain in Ref.3) in that it does not require highly specialized apparatus or prolonged observations. The present authors have used the above method between August and

Card 3/5

211f6  
S/1111/EO/CO3/CO4/005/025  
EO32/EL11

# Results of Measurements of the Absorption of Radio Waves in the Ionosphere

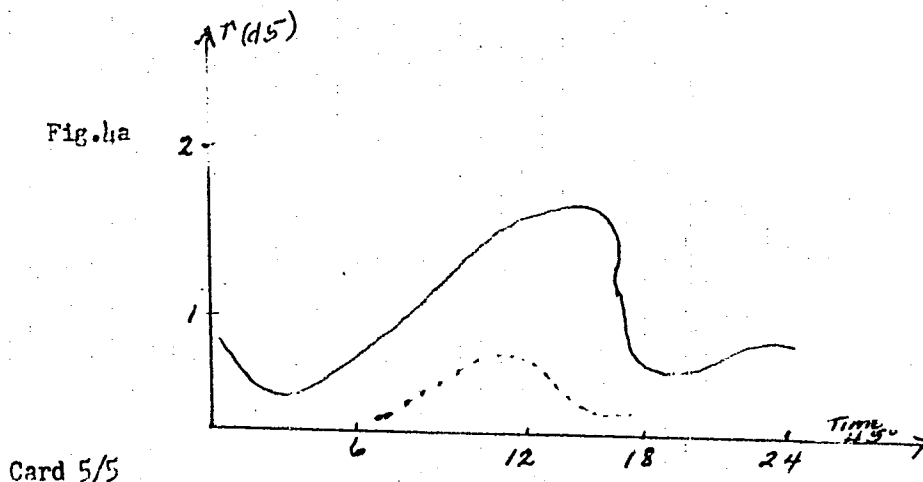
December 1959 on 8.6 and 25 Mc/s. The results obtained show that the absorption has a characteristic maximum at noon each day, and a minimum at about 4 hrs. In August and September there is also an additional evening maximum at about 20 hrs. The magnitude of the noon maximum was found to be 1.1 db in August, 1.15 db in September, 1.2 db in October and November, and 1.6 db in December (on 18.6 Mc/s throughout). Fig. 4 shows the diurnal dependence of the total absorption (continuous curve) and the absorption in the lower layers of the ionosphere (dotted curve) averaged over the periods 23rd to 31st October (Fig. 4a) and 12th to 15th November (fig. 4b). The results obtained by the Radio Astronomical methods were checked by means of the pulse method described by Pigott et al. (Ref. 9). Fig. 5 shows the dependence of the absorption in the F-layer on the critical frequencies of the F-layer (18.5 Mc/s) (curve I - 12th to 15th November; curve II - 20th to 31st October; curve III - data from Ref. 3). Acknowledgements are expressed to G.G. Getmantsev and V.L. Ginzburg for interest and advice.

Card 4/5

Results of Measurements ...

21166  
S/111/60/003/006/005/025  
E032/E111

There are 5 figures and 13 references: 5 Soviet and 8 non-Soviet.  
ASSOCIATION: Nauchno-issledovatel'skiy radiofizicheskiy institut  
pri Gor'kovskom universitete (Scientific Research  
Radiophysics Institute of the Gor'kiy University)  
SUBMITTED: May 10, 1960



BENEDIKTOV, Ye.A.; KOROBYOV, Yu.S.; MITYAKOV, N.A.; RAPOPORT, V.O.;  
KHODALEVA, L.N.

Results of the measurement of the absorption of radio waves in  
the ionosphere. Izv. vys. ucheb. zav.; radiofiz. 3 no.6:957-968  
'60. (MIRA 14:4)

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